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6

Digital TV



Basics

935SH supports One Seg terrestrial digital television broadcast services developed for mobile devices in Japan.

Watch Live Television

Set up a channel list for your service area to access available programming. Capture screenshots while watching TV.

Multi Job

Watch TV in one half of Display using the other to access messaging functions, browse the Internet or open Phone Book, etc.

TV Listing (EPG) & Program Info

Find program channels and times, or open program details via current channel's schedule.

View Data Broadcasts

In addition to audio and visuals, enjoy text, program-related information and interactive services.

Record Shows/Time Shift

Record current program for later viewing on handset; if interrupted by incoming calls while watching TV, record it temporarily for delayed playback.

Reserve TV Programs

Record a show or activate TV at a specified time; enter dates & times manually or reference TV Listing electronic program guide.

Precautions

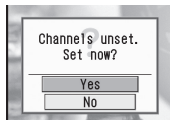
- 935SH TV is exclusively for use in Japan.
- Do not use TV while driving or cycling. Accidents may result. Phone use while driving is prohibited by the Road Traffic Law (revised November 1, 2004). When walking, always pay attention to your surroundings, especially near road/rail crossings, etc.
- When using TV while charging battery, separate AC Charger and Antenna to avoid interference.
- Call transmissions, incoming messages or mobile phone use in the immediate vicinity may affect audiovisual quality.
- Programming may not be viewable or record properly when:
 - Too far from or too close to broadcasting stations
 - In mountainous areas or near tall buildings
 - Aboard trains or in moving vehicles
 - Near high-voltage lines, neon lights or wireless base stations
 - Near railroad tracks or highways
 - Anywhere a jamming signal is broadcast/reception is unstable



Area Setup

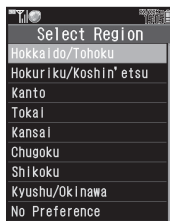
When activating TV for the first time, follow these steps to set up channels by area:

1



• Setup confirmation appears.

2 Yes



3 Select region

4 Select prefecture
Select locality



• After setup, channel list appears.

5



• To watch TV, select **Digital TV** and press .

Watching TV without Completing Area Setup
In , No Preference

Adding Reception Areas

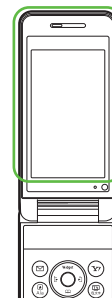
Set Channels

Change Area Select Area

Set Area Info From

Digital TV Antenna

TV Antenna is located behind Display.
Move handset to find best reception.



Antenna Area

6

Digital TV

Advanced

Switching reception Areas Renaming Areas Changing/disabling function Editing channels Deleting all channels in Area Adding new channels to Area Updating all channels in the Area (P.6-12)



Watching TV

Complete Area setup first.

1



TV Window

2 Use Keypad to select a channel

- Use to switch channels one by one; Long Press to find channel with stable signal automatically.

3 ➔ Yes ➔ ➔ TV ends

Watching TV in Portrait Position

- Data Broadcast text appears below TV image.

Incoming Calls

- Press to answer calls.

When Answering Voice Calls with Memory Card Inserted

- Current program is temporarily recorded; start playback after the call. (Time Shift)

Incoming Messages

- Double beep sounds and New Message notice appears. Long Press to access messages.

Key Assignments

Open Options Menu	
Toggle Panel On/Off	
Activate TV/Change Area	
Volume Control	
Toggle Display Size (portrait)	

Multi Selector

Multi Selector response changes with TV orientation.



(left/right)

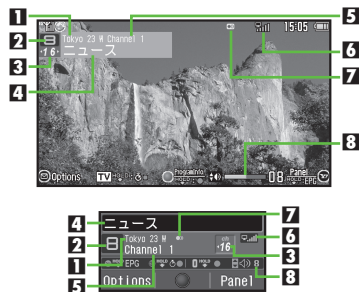
(up/down)

Advanced

- Viewing key assignments
- Searching for current program on the Internet
- Saving current channel
- Selecting an audiovisual mode
- Changing panel pattern in portrait position
- Customizing viewing options for landscape position (And more on **P.6-12 - 6-14**)
- Changing subtitle settings
- Changing sound settings (**P.6-15**)



Panel Description



1	Area name	5	Station name
2	Channel key	6	Signal strength*
3	Channel	7	Sound Channel
4	Program name	8	Volume

*The more bars the better.
Indicator position varies with display content, etc.

Data Broadcast (Japanese)

In portrait position, Data Broadcast text appears below TV image. Use to select an item and press to access program-related information and interactive services.



Data Broadcast Window

Data Broadcast Fees

- Data Broadcast information viewing is free, however, using data links/related services incurs Internet connection fees.
- A confirmation appears the first time a fee-based Network connection is established from a channel; if accepted, further Network connections are established without confirmation until the channel is changed.

Advanced

- Changing view Returning to initial window Deleting information saved from Data Broadcasts Hiding Network connection confirmation Saving links to Data Broadcasts or related information (And more on P.6-14)



Obtaining Program Information

Find program channels and times, or open program details via current channel's schedule.

TV Listing	Start EPG S! Application to find program channels and times for specified area
Program Info	Open program details via current channel's schedule; set Reservations to record shows or activate TV

TV Listing (Japanese)

1 In TV window, (Y) (Long)

- EPG application starts; refer to the application's help menu for operational instructions.
- When using EPG application for the first time, a confirmation appears. Follow onscreen instructions.

Program Info

1 In TV window, (M) ➡ OperateProgram ➡ (C)

2 Program Info. ➡ (C)



Program Info Window

3 Select program ➡ (C) • To return to TV window, press (EXIT) twice.

Setting Recording Timer via Program Info [Program Info Window] Select program ➡ (Y) ➡ (C)

- Timer entries set via Program Info are updated with program changes automatically. Program cancellations cancel corresponding Timer entries. (Poor signal conditions may inhibit updates or cancellations.)

Setting TV Timer via Program Info [Program Info Window] Select program ➡ (M) ➡ Programming ➡ (C)



Recording Programs

Clip is saved to handset (or Memory Card, if inserted).

Precautions

- Saved files cannot be forwarded or attached to messages.
- 935SH encryption technology prevents unauthorized copying or playback of Memory Card files through data encryption and authentication. Files copied from Memory Card to other cards on PC are unplayable.
- Copyright laws limit duplicated material to private use only, and prohibit unauthorized reproduction/other use.
- SoftBank Mobile is not liable for any damages resulting from accidental loss or alteration of recorded content.

Dubbing 10

- 935SH supports Dubbing 10 copy protection scheme that allows recordings to be copied from handset to Memory Card. Open file properties to check the remaining number of copies allowed to be made.

1 In TV window, (Long) ➔ Recording starts





Recording Window

- Changing volume, etc. does not affect recordings.
- When Small Light flashes yellow, reception is poor; change location to improve it: Small Light illuminates green for moderate, or blue for strong reception.


2 (Long) ➔ Recording ends

Recording Programs in Portrait

[TV Window]  (Long)

- To stop, Long Press  while recording.

Chase Play (Playing while Recording)

[Recording Window]  (Long) ➔

Playback starts ➔  (Long) ➔

Playback stops

- Watch a program from the beginning while recording it on Memory Card.

Memory/Battery Runs Low or Video

Call/S! Circle Talk Request is Accepted

- Recording stops. (Recorded clip is saved.)

Saving Files via the Internet while Recording

- While recording programs to handset, confirm there is enough free memory before saving files.

Advanced

-  ● Recording programs without Data Broadcasts ● Saving Data Broadcasts to Memory Card ● Recording programs to handset only (P.6-15)

Playing Recorded Programs

- 1 In TV window, ➔ **TV Player** ➔



Video List

- indicates the file is unplayable.

- 2 Select file ➔



Playback Window

- Playback starts. (The last played file plays from where it stopped.)

- 3 (Long) ➔ **Playback stops**

Major Playback Operations

Adjust volume or temporarily enlarge a portion of widescreen image following the same operations used while watching TV.

Fast Forward	¹
Rewind	^{1, 2}
Skip Forward	
Skip Backward	
Pause ³	(in portrait)
Split File	(Long) ⁴
Set Marker	⁴
Toggle Panel On/Off	

¹Each press increases speed. To resume normal playback, press (in portrait).

²Long Press to replay. (Available when no Marker is saved.)

³In pause, use to reverse/advance frame.

⁴Not available during Time Shift playback.

Advanced

- Splitting files by specifying a time point ● Playing files repeatedly ● Playing split files ● Playing video files transferred from Blu-ray Disc recorders
- Checking memory status ● Renaming files ● Deleting files ● Copying files to Memory Card ● Opening file properties ● Playing files with Markers (And more on P.6-16 - 6-17)



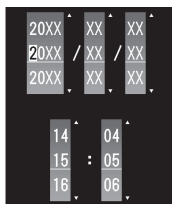
TV Timer & TV Recording Timer

1 In TV window, ➔ **Rec./ TimeShift** ➔ ➔ **Reservation List** ➔

2 ➔ **New Entry** ➔



3 **Manual** ➔ ➔ **Programming or Recording** ➔



4 Enter start date/time ➔
➔ Enter end date/time ➔

5 **Channel:** ➔ ➔ **Select channel** ➔ ➔

- If a confirmation appears, read the message and press .

Setting Timer via EPG

In , **From TV Listing** ➔

- Refer to the application's help menu for operational instructions.

Timer Recording Precautions

Confirm target channel reception; keep handset open.

- End the current operations.
- Confirm battery is adequately charged and there is enough free memory.

When TV is activated for Timer recording, audio output is redirected to Speaker/Headphones even if Sound Output is set to **Bluetooth Device**. (TV audio is muted.)

At Timer Time (TV Alarm Time)

TV and Alarm activate. Alarm ends after the set duration.



Recording starts slightly before the Timer start time and ends a few seconds after the Timer end time.

While Using Another Function

- TV activates via Multi Job and target program/recording starts. However, if Multi Job cannot activate in the current state, TV may remain off, or the current function may end automatically (unsaved images, messages, Phone Book entries, etc. may be deleted). End all active functions/applications before Timer time.

Advanced

- Opening/editing/deleting Timer details
- Opening/deleting Timer log
- Customizing TV Alarm settings
- Prioritizing current operation over TV Timer/TV Recording Timer (P.6-17)



Time Shift Recording & Playback

Record current program temporarily for delayed playback.

- Recorded content is deleted after playback.
- Insert Memory Card first.

1 While watching TV, (Long) ➔ Recording starts






Recording in progress

2 While recording, (Long) ➔ Playback starts


- Playback starts from where recording was started.
- Recording and playback stop when Time Shift playback has caught up to the real-time program.

Major Playback Operations

Fast Forward	
Skip Forward	
Skip Backward	

* Press  to resume normal Time Shift playback.

Time Shift Recording Automatic Activation

When a Voice Call is answered while watching TV with Memory Card inserted, Time Shift recording starts automatically; Long Press  after the call for playback.

Advanced

-  Disabling Time Shift recording automatic activation (P.6-15)



Area & Channel	
Switching reception Areas	While watching TV, ➔ Select Area ➔
Renaming Areas	While watching TV, ➔ Set Channels ➔ ➔ Change Area ➔ ➔ Select Area ➔ ➔ Change Area Name ➔ ➔ Enter name ➔
Changing/disabling function	<small>(Start Here)</small> While watching TV, ➔ Set Channels ➔ ➔ Channel Key Setting ➔ ➔ See below
	Toggle All Receivable Channels By Manual ➔
	Disabling Disable ➔
Editing channels	<small>(Start Here)</small> While watching TV, ➔ Set Channels ➔ ➔ CH Switch ➔ ➔ Select channel ➔ ➔ See below
	Switching Channel Positions Flip ➔ ➔ Select target key ➔
	Deleting Channels Delete ➔ ➔ Yes ➔
Deleting all channels in Area	While watching TV, ➔ Set Channels ➔ ➔ Change Area ➔ ➔ Select Area ➔ ➔ Reset Settings ➔ ➔ Yes ➔
Adding new channels to Area	While watching TV, ➔ Set Channels ➔ ➔ Change Area ➔ ➔ Select Area ➔ ➔ Channel Update ➔ ➔ Update Further ➔
Updating all channels in the Area	While watching TV, ➔ Set Channels ➔ ➔ Change Area ➔ ➔ Select Area ➔ ➔ Channel Update ➔ ➔ Update All ➔ ➔ Yes ➔

Watching

Viewing key assignments	While watching TV, ➔ Help ➔ • Also available while recording or playing programs.
Searching for current program on the Internet	While watching TV, ➔ OperateProgram ➔ ➔ Program Info. Search ➔ ➔ Search ➔ • Follow onscreen instructions.
Canceling image smoothing	While watching TV, ➔ AV Settings ➔ ➔ Smooth Mode ➔ ➔ Off ➔
Saving current channel	While watching TV, ➔ Set Channels ➔ ➔ Save Channel ➔ ➔ Select key ➔ • To overwrite a saved channel, choose Yes and press .
Selecting an audiovisual mode	While watching TV, ➔ AV Settings ➔ ➔ AV Mode ➔ ➔ Select mode ➔ • TV reception time may shorten depending on the mode.



Adjusting current AV Mode parameters	<p>Start Here While watching TV, ➔ AV Settings ➔ ➔ See below</p> <ul style="list-style-type: none"> Change AV Mode (select mode other than Link to Genre first).
	<p>Brightness Image ➔ ➔ Brightness ➔ ➔ Adjust level ➔ </p>
	<p>Disabling/Enabling Brightness Adjustment via Light Sensor Image ➔ ➔ Brightness ➔ ➔ (<input type="checkbox"/>/ <input checked="" type="checkbox"/>) ➔ </p>
	<p>Adjusting Brightness Automatically by Scene Image ➔ ➔ Control by Scene ➔ ➔ On(Light) or On ➔ </p>
	<p>Other Image-Related Parameters Image ➔ ➔ Select item ➔ ➔ Adjust level ➔ </p> <ul style="list-style-type: none"> Adjust Contrast, Blackness (black level), Color (color density), Tint (skin color tone) and Sharpness.
	<p>Restoring Default Image Settings Image ➔ ➔ Reset ➔ ➔ Yes ➔ </p>
Changing panel pattern in portrait position	<p>Selecting Sound Option Tone ➔ ➔ Select option ➔ </p>
	<p>With TV in portrait, ➔ Advanced ➔ ➔ Panel Type ➔ ➔ Select pattern ➔ </p>

Customizing viewing options for landscape position	<p>Start Here With TV in landscape, ➔ Advanced ➔ ➔ Set Landscape ➔ ➔ See below</p> <p>Showing Indicators Always Display Icon ➔ ➔ On ➔ </p> <p>Disabling Partial Image Enlargement Magnify Area ➔ ➔ Off ➔ </p> <p>Using Portrait Position Key Assignments Key Direction ➔ ➔ Off ➔ </p>
	<p>Switching One Seg service While watching TV, ➔ Set Channels ➔ ➔ Select Serv. Station ➔ ➔ Select service ➔ </p> <ul style="list-style-type: none"> Available for programs with multiple services.
	<p>Listening to audio from Speaker While watching TV, ➔ Advanced ➔ ➔ Sound Output ➔ ➔ Loudspeaker ➔ </p>
Switching audio output to wireless device	<p> ➔ TV ➔ ➔ Settings ➔ ➔ Sound Output ➔ ➔ Bluetooth Device ➔ </p>
Using wireless Headphones	<p>While watching TV, (Long) <ul style="list-style-type: none"> Pair SCMS-T DRM scheme compliant Bluetooth® headphones beforehand. </p>
Setting TV to end automatically after a period of time	<p>While watching TV, ➔ Advanced ➔ ➔ Auto Exit ➔ ➔ Auto Exit Time ➔ ➔ Select time ➔ </p>
Disabling auto shut-off when handset is closed	<p>While watching TV, ➔ Advanced ➔ ➔ Auto Exit ➔ ➔ Close Action ➔ ➔ Watch TV ➔ </p>



Changing handset responses to incoming transmissions

[Start Here] ● ➔ TV ➔ ● ➔ Settings ➔ ● ➔ Calls & Alarms ➔ ● ➔ See below

Showing Alarm Notice

Alarm ➔ ● ➔ Alarm Notice ➔ ●

Showing Calls or S! Circle Talk Requests

Select item ➔ ● ➔ Notice a Call ➔ ●

Showing New Message Window

Incoming Message ➔ ● ➔ Calls & Alarms ➔ ●

Data Broadcast

Changing view

With Data Broadcast in portrait, (⊖) ➔ Set Broadcast Data ➔ ● ➔ Change View (Data) ➔ ●
• To return to TV window, press (⏮).

Returning to initial window

With Data Broadcast in portrait, (⊖) ➔ Set Broadcast Data ➔ ● ➔ Back to Top ➔ ●

Deleting information saved from Data Broadcasts

[Start Here] While watching TV, (⊖) ➔ Set Broadcast Data ➔ ● ➔ Delete Station Data ➔ ● ➔ See below

Deleting by Station

Select station ➔ (⊖) ➔ Delete ➔ ● ➔ Yes ➔ ●

Deleting All

(⊖) ➔ Delete All ➔ ● ➔ Enter Handset Code ➔ ● ➔ Yes ➔ ●

Hiding Network connection confirmation

While watching TV, (⊖) ➔ Set Broadcast Data ➔ ● ➔ Notify Connection ➔ ● ➔ Off ➔ ●

Sending/hiding Location Information

[Start Here] While watching TV, (⊖) ➔ Set Broadcast Data ➔ ● ➔ Location ➔ ● ➔ See below

Sending Always

On ➔ ●

Hiding Always

Off ➔ ●

Sending manufacture number and other information

While watching TV, (⊖) ➔ Set Broadcast Data ➔ ● ➔ Manufacture Number ➔ ● ➔ On ➔ ●

TV Link (Japanese)

Saving links to Data Broadcasts or related information

While viewing Data Broadcast, select link source ➔ ●

• Link navigation varies by program. Follow onscreen instructions to save links.

Using TV links

[Start Here] ● ➔ TV ➔ ● ➔ TV Link ➔ ● ➔ See below

Opening TV Links

Select link ➔ ●

• Connection fees may apply.

Opening Properties

Select link ➔ (⊖) ➔ Details ➔ ●

Deleting TV links

[Start Here] ● ➔ TV ➔ ● ➔ TV Link ➔ ● ➔ See below

One Entry

Select link ➔ (⊖) ➔ Delete ➔ ● ➔ Yes ➔ ●

All Entries

(⊖) ➔ Delete All ➔ ● ➔ Enter Handset Code ➔ ● ➔ Yes ➔ ●



Subtitle & Sound

Changing subtitle settings	<p>[Start Here] While watching TV, ➔ Subtitle/Sound ➔ ➔ See below</p> <ul style="list-style-type: none"> May be unavailable depending on program content or viewing style (TV orientation, etc.).
	<p>Showing Subtitles Always</p> <p>Display Subtitle ➔ ➔ On ➔ </p>
	<p>Hiding Subtitles Always</p> <p>Display Subtitle ➔ ➔ Off ➔ </p>
	<p>Changing Subtitle Language</p> <p>Subtitle Language ➔ ➔ Language 2 ➔ </p>
	<p>Showing Subtitle Area Always</p> <p>Auto Subtitle Off ➔ ➔ Off ➔ </p>
	<p>Showing Subtitles at the Top</p> <p>Subtitle Position ➔ ➔ Upper ➔ </p>
	<p>Increasing Subtitle Lines</p> <p>Subtitle ScrollMode ➔ ➔ On ➔ </p>
Changing sound settings	<p>[Start Here] While watching TV, ➔ Subtitle/Sound ➔ ➔ See below</p>
	<p>Selecting Sound Option</p> <p>Sound Type ➔ ➔ Sound2 ➔ </p> <ul style="list-style-type: none"> Available when multiple sounds are supported.
	<p>Listening to Sub Language</p> <p>Sound Channel ➔ ➔ Sub ➔ </p>
	<p>Listening to Main & Sub Languages</p> <p>Sound Channel ➔ ➔ Main + Sub ➔ </p>

Recording

Recording programs without Data Broadcasts	<p>While watching TV, ➔ Set Broadcast Data ➔ ➔ Set Recording ➔ ➔ Image Only ➔ </p>
Saving Data Broadcasts to Memory Card	<p>While watching TV, ➔ Set Broadcast Data ➔ ➔ Image Location ➔ ➔ Memory Card ➔ </p>
Disabling Time Shift recording automatic activation	<p> ➔ TV ➔ ➔ Settings ➔ ➔ Set Call Time Shift ➔ ➔ Off ➔ </p>
Recording programs to handset only	<p> ➔ TV ➔ ➔ Settings ➔ ➔ Save Recording to ➔ ➔ Phone Memory ➔ </p>



Recorded Programs

■ Playback

Splitting files by specifying a time point	During playback, → → → → → →
Playing files repeatedly	→ → → → → →
Playing split files	→ → → → → →
Playing video files transferred from Blu-ray Disc recorders	→ → → → <ul style="list-style-type: none"> During playback, press to switch sound channels (L, R or L + R). For more operations, see P.8-5 "Video Playback Operations." In Recorder Contents file list, press to rename files, change playback mode (repeat, random, etc.), check memory status, open properties or delete files.

■ Managing

Checking memory status	→ → → → →
Renaming files	→ → → → → → →
Deleting files	<div> → → → → → </div> <p>Single Files</p> → → → <p>All Files</p> → → →
Copying files to Memory Card	→ → → → → → → → <ul style="list-style-type: none"> File is moved from handset to Memory Card when the number of copies made exceeds the limit.
Moving files to Memory Card	→ → → → → → → → <ul style="list-style-type: none"> Files moved to Memory Card cannot be moved back to handset.
Opening file properties	→ → → → → →



Markers

Playing files with Markers	Start Here During playback ➔ See below Skipping between Markers ⏮ (Long) or ⏭ (Long) Moving to Specific Markers 0:00 - 9:59
	Start Here During playback, ⏮ ➔ Set Marker ➔ ● ➔ Marker List ➔ ● ➔ See below Starting Playback Select number ➔ ● Deleting a Marker Select number ➔ ⏮ ➔ Delete ➔ ● Deleting All Markers ⏮ ➔ Delete All ➔ ● ➔ Yes ➔ ●

TV Timer & TV Recording Timer

Opening/editing/deleting Timer details	Start Here While watching TV, ⏮ ➔ Rec./TimeShift ➔ ● ➔ Reservation List ➔ ● ➔ See below Opening Entries Select entry ➔ ● Editing Entries Select entry ➔ ⏮ ➔ Edit ➔ ● ➔ Edit ➔ ⏮ • Some entries may not be edited depending on the content. Deleting Entries Select entry ➔ ⏮ ➔ Delete ➔ ● ➔ Yes ➔ ●
--	---

Opening/deleting Timer log

Start Here While watching TV, ⏮ ➔ **Rec./TimeShift** ➔
 ● ➔ **Reservation List** ➔ ● ➔ ⏮ ➔ See below

Opening Timer Log

Select record ➔ ●

Playing Recorded Programs

Select record ➔ ⏮

Deleting Records

Select record ➔ ⏮ ➔ **Yes** ➔ ●

Customizing TV Alarm settings

Start Here While watching TV, ⏮ ➔ **Advanced** ➔
 ● ➔ **TV Alarm** ➔ ● ➔ See below

Changing TV Alarm Time

Alarm Time ➔ ● ➔ Select time ➔ ●

Disabling Tone/Vibration/Small Light

Tone, Vibration or Light ➔ ● ➔ **Off** ➔ ●

Changing Duration

Duration ➔ ● ➔ Select time ➔ ●

Prioritizing current operation over TV Timer/TV Recording Timer

● ➔ **TV** ➔ ● ➔ **Settings** ➔ ● ➔ **TV Reserve Prior** ➔ ● ➔ **Off** ➔ ●



Watching

? TV won't activate

- Battery may be low. Charge battery or install a charged battery.

? Cannot watch TV

- Reception may be poor; change location to improve it. (TV signal strength is independent of handset signal strength.)
- Handset may not have been used for a period of time; retrieve Network Information.
- TV is disabled upon subscription termination.

? Area setup does not complete correctly

- Perform **Update All** in Channel Update. Area setup may not complete correctly depending on the area or service availability.

Recording

? Ringtone does not sound as set while recording

- When a Chaku-Uta® file, etc. is set as ringtone, default ringtone may sound for incoming transmissions while recording.

TV Recording Timer

? Could not start recording. appeared as recording result

- Recording failed due to low battery/memory, active function, etc.

? Recording aborted. appeared as recording result

- Recording was interrupted due to low memory, Memory Card removal, etc.

